**Faculty of Computer Science and Information Technology**

**University of Malaya**

**Semester 1, 2016/2017 Academic Session**

**WIX2002: Project Management**

**Tutorial 2**

1. What are the six elements of a typical scope statement?
2. What does it mean if the priorities of a project include: Time-constraint, Scope accept, and Cost enhance?
3. What kinds of information are included in a work package?
4. What questions does a project objective answer? What would be an example of a good project objective?
5. Develop a WBS for a project in which you are going to build a bicycle. Try to identify all of the major components, and provide three levels of detail.
6. You are the father or mother of a family of two children (one son and one daughter aged 24 and 22, respectively), and are planning a weekend camping trip. Develop a responsibility matrix for the work that needs to be done prior to starting your trip. (Note: The list of tasks is: Research sites, Decide on site, Reserve site, Shopping list, Purchase supplies, Pack camping equipment, Pack fishing gear, Fill car with gas, and Get cash.)
7. What are the differences between bottom-up and top-down cost estimating approaches? Under what conditions would you prefer bottom-up estimates?
8. Below is a project WBS with cost apportioned by percents. The total project cost is estimated to be $600,000.
9. What are the estimated costs for the following deliverables?
10. Design
11. Programming
12. In-house testing

|  |  |  |
| --- | --- | --- |
| Reuter Systems Project Cost: $600,000 | Definition (10%) | Objectives (4%) |
| Requirements (6%) |
| Design (40%) | Inputs (3%) |
| Outputs (3%) |
| Files (4%) |
| Interfaces (10%) |
| Programming (20%) |
| Implementation (50%) | In house Testing (40%) |
| Customer Testing & Review (10%) |

1. What weaknesses are inherent in this estimating approach?
2. Using the complexity weighting scheme, and the function point complexity weighted table shown in Table 1 below, estimate the total function points. Assume historical data suggest five function points equal one person month, and six people can work on the project.

|  |  |  |  |
| --- | --- | --- | --- |
| Table 1: Function Point Complexity Weighted Table | | | |
|  |  |  | Low Average High |
| Number of inputs | 10 |  | Rated complexity low 2 3 4 |
| Number of outputs | 20 |  | Rated complexity average 3 6 9 |
| Number of inquires | 10 |  | Rated complexity average 2 4 6 |
| Number of files | 30 |  | Rated complexity high 5 8 12 |
| Number of interfaces | 50 |  | Rated complexity high 5 10 15 |

1. What is the estimated project duration?
2. If 20 people are available for the project, what is the estimated project duration?
3. If the project must be completed in six (6) months, how many people will be needed for the project?

**Discussion Date: 11 October 2016**